

Federal Staff:

- Stephen T. Jackson (Director)
- Carolyn Enquist (Deputy Director)
- Teresa Krause (¹/₄-time post-doc)

University PIs:

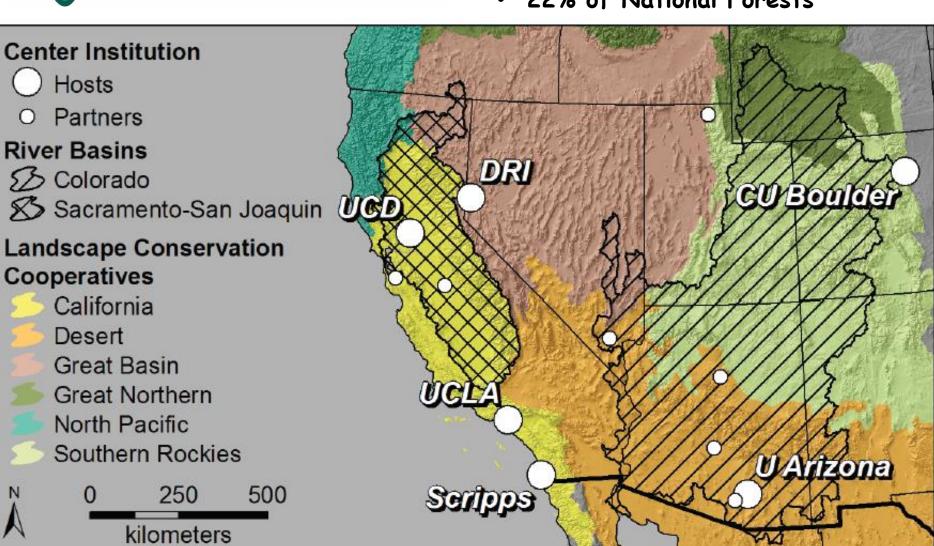
- Jonathan T. Overpeck (Arizona)
- Alexander Gershunov (Scripps)
- Dan Cayan (Scripps)
- Mike Dettinger (Scripps/UNR/USGS)
- Glen MacDonald (UCLA)
- Mark Schwartz (UC-Davis)
- Erica Fleishman (UC-Davis & Colorado State)
- Kelly Redmond (Desert Research Institute)
- Tim Brown (Desert Research Institute)
- Brad Udall (Colorado State)

University Staff:

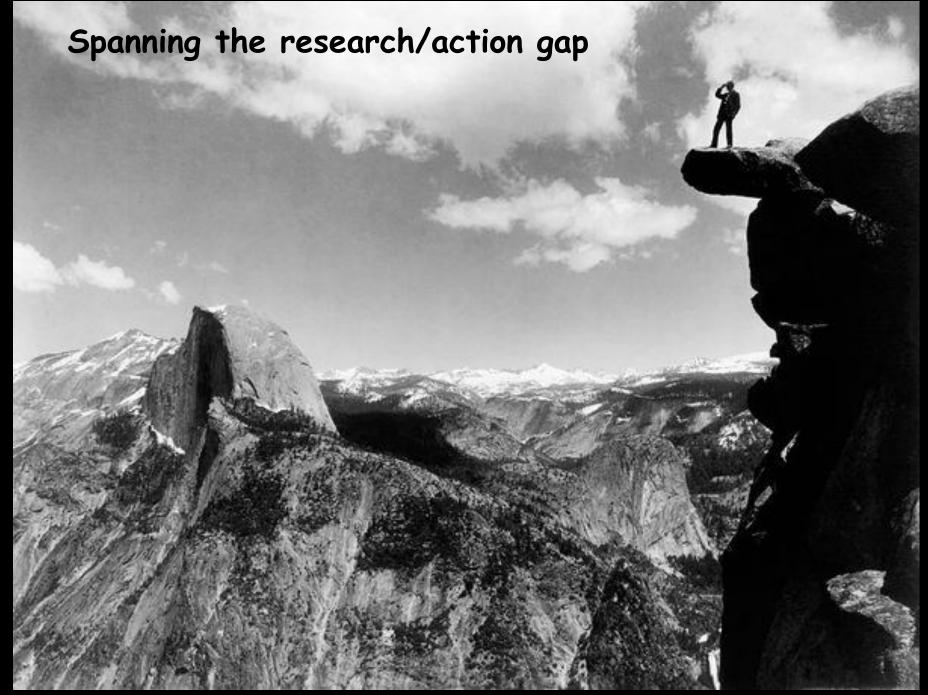
- Christine Schirmer: Program & Communications Manager Arizona
- Anita Govert: Business Manager
 Arizona
- Post-docs (4) and graduate students (2) UCD, DRI, UCLA, SIO

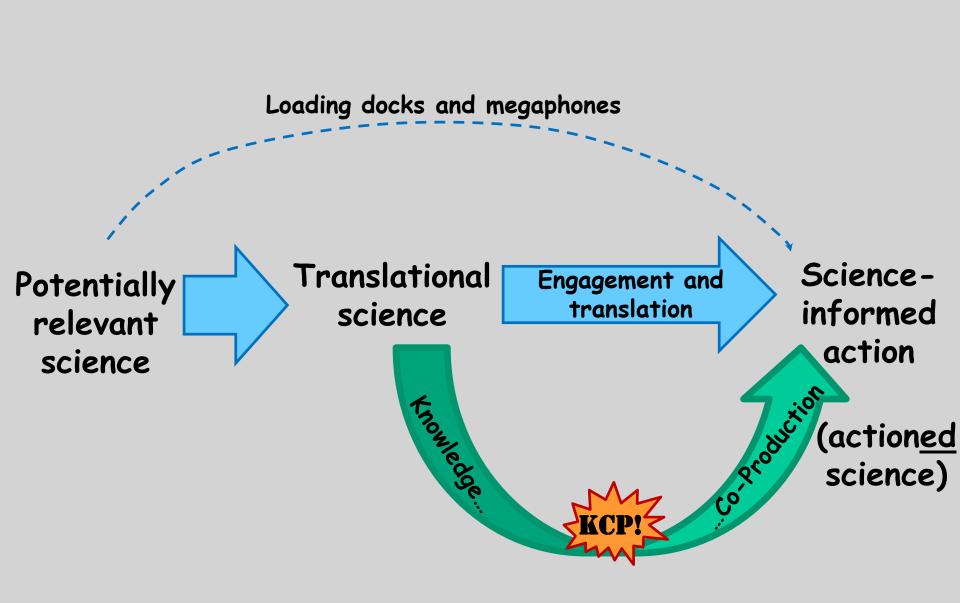


- 16% of U.S. population
- 25% of federal lands
- 25% of DOI lands
- 25% of tribal lands (151 tribes)
- 22% of National Forests



- Arid & semi-arid climate = high vulnerability
- · High societal dependency on snowpack and rivers
- SW in Year 17 of severe & persistent drought
- 'Novel drought': precipitation deficit PLUS record-high temperatures
- Big impacts, big challenges
 - Bark-beetle mortality (2000s)
 - Physiological mortality (2010s)
 - Severe wildfires
 - Water-resource challenges







- What are the most effective translation practices?
- · How do we know when we're getting it right?



NCEAS 2015: Translational Ecology

Working Group



- Ecologists
- Climate adaptation scientists
- Social scientists
- Resource managers

Decision-framing Context Decision-relevant outcomes PRINCIPLES AND GOALS OF TRANSLATIONAL ECOLOGY Buy-in, co-ownership Communication Knowledge exchange and learning

Summer 2017:

- Special issue of Frontiers in Ecology and the Environment
- ESA Symposium & special sessions

Colleges & universities - Science agencies - Think tanks	INSTITUTIONS	Land management agencies · NGOs · Consultancies & Lobbying Firms
Basic science & theory • Applied science • Environmental education	Knowledge-Action Boundary (development & exchange)	Adaptive management - Ecosystem management - Advocacy & Policy
← RESEARCH —	REALM OF TRANSLATIONAL ECOLOGY	——— PRACTICE ——
Raw data & analysis - Scientific papers - Derived data products	Process-oriented Tools & Technique	Web-based portals - Mapping tools - Reports & expert opinion
Empirical & theoretical models - Predictions - Forecasts	INFORMATION Re	gulatory & management planning - Conservation planning - Decision support
	Collaboration	
	Trust	
	Actionable/use-inspired scier	ice
	Robust Decision Making	



Leveraging capacities at UA and other partners Kathy Jacobs (CCASS) Scenario planning Tribal adaptation Capacity building Alison Meadow (CCASS) and Tamara Wall (Desert Research Institute) o Identifying effective practices in translational climate science Assessment of research impacts in the decision/action domain